

A.M. Pradeep

List of Publications by Year in descending order

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papers

540
citations

687363

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all docs

79
docs citations

79
times ranked

278
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of Boundary Layer Fences and Vortex Generators in Improving Performance of S-Duct Diffusers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002, 124, 136-142.	1.5	42
2	Behaviour of rarefied gas flow near the junction of a suddenly expanding tube. <i>Journal of Fluid Mechanics</i> , 2014, 739, 363-391.	3.4	38
3	Effect of variation in axial spacing and rotor speed combinations on the performance of a high aspect ratio contra-rotating axial fan stage. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2013, 227, 138-146.	1.4	36
4	Low Mach number slip flow through diverging microchannel. <i>Computers and Fluids</i> , 2015, 111, 46-61.	2.5	35
5	Experimental investigation of stall inception of a low speed contra rotating axial flow fan under circumferential distorted flow condition. <i>Aerospace Science and Technology</i> , 2017, 70, 534-548.	4.8	25
6	Influence of Circumferential Inflow Distortion on the Performance of a Low Speed, High Aspect Ratio Contra Rotating Axial Fan. <i>Journal of Turbomachinery</i> , 2014, 136, .	1.7	22
7	Secondary Flow Control Using Vortex Generator Jets. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2004, 126, 650-657.	1.5	19
8	Asymmetric entrainment effect on the local surface temperature of a flat plate heated by an obliquely impinging two-dimensional jet. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 5250-5257.	4.8	18
9	Experimental assessment on effect of lower porosities of bend skewed casing treatment on the performance of high speed compressor stage with tip critical rotor characteristics. <i>Aerospace Science and Technology</i> , 2017, 60, 193-202.	4.8	18
10	Stall Inception Mechanism in an Axial Flow Fan Under Clean and Distorted Inflows. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2010, 132, .	1.5	17
11	Experimental study of rarefied gas flow near sudden contraction junction of a tube. <i>Physics of Fluids</i> , 2014, 26, .	4.0	17
12	Benefits of Nonaxisymmetric Endwall Contouring in a Compressor Cascade With a Tip Clearance. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	1.5	17
13	Slip flow through a converging microchannel: experiments and 3D simulations. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 025015.	2.6	14
14	Simulation of a temperature drop for the flow of rarefied gases in microchannels. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 1066-1079.	2.1	13
15	Design and off-design behavior of a tandem rotor stage. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2020, 234, 927-942.	1.3	12
16	Transient nature of secondary vortices in an axial compressor stage with a tandem rotor. <i>Physics of Fluids</i> , 2022, 34, .	4.0	12
17	Active feedback control of stall in an axial flow fan under dynamic inflow distortion. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 1135-1142.	2.7	11
18	Active Flow Control in Circular and Transitioning S-duct Diffusers. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006, 128, 1192-1203.	1.5	9

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19	Experimental investigation of a high aspect ratio, low speed contra-rotating fan stage with complex inflow distortion. Propulsion and Power Research, 2014, 3, 68-81.	4.3	9
20	Experimental Investigation of Stall Inception Mechanisms of Low Speed Contra Rotating Axial Flow Fan Stage. International Journal of Rotating Machinery, 2015, 2015, 1-14.	0.8	9
21	Early onset of flow separation with rarefied gas flowing in a 90° bend tube. Experimental Thermal and Fluid Science, 2015, 66, 221-234.	2.7	9
22	Stability management of high speed axial flow compressor stage through axial extensions of bend skewed casing treatment. Propulsion and Power Research, 2016, 5, 236-249.	4.3	8
23	Stall inception mechanisms in a contra-rotating fan operating at different speed combinations. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 1041-1052.	1.4	8
24	Stall inception in a contra-rotating fan under radially distorted inflows. Aerospace Science and Technology, 2020, 105, 105909.	4.8	8
25	Investigations on the Effect of Inflow Distortion on the Performance of a High Aspect Ratio, Low Speed Contra Rotating Fan Stage. , 2013, , .		7
26	Improvement of effectiveness of EMHD flow separation control. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 3947-3963.	1.6	7
27	Detection of separation in S-duct diffusers using shear sensitive liquid crystals. Journal of Visualization, 2004, 7, 299-307.	1.8	6
28	Stall inception and its control in an axial flow fan under dynamic inflow distortion. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2010, 224, 383-398.	1.4	6
29	Effect of Turbine Tip Leakage Flows on Exhaust Diffuser Performance. , 2011, , .		6
30	Experimental investigation of tandem rotor under clean and radially distorted inflows. Propulsion and Power Research, 2021, , .	4.3	6
31	Experimental Study of the Effect of Radially Distorted Inflow on a Contrarotating Fan Stage. International Journal of Rotating Machinery, 2014, 2014, 1-14.	0.8	5
32	Improvement of Moderately Loaded Transonic Axial Compressor Performance Using Low Porosity Bend Skewed Casing Treatment. International Journal of Rotating Machinery, 2014, 2014, 1-14.	0.8	5
33	Performance Characterization of the Effect of Axial Positioning of Bend Skewed Casing Treatment Retrofitted to a Transonic Axial Flow Compressor. , 2014, , .		5
34	Investigations on Stator Hub End Losses and its Control in an Axial Flow Compressor. , 2014, , .		5
35	Velocity measurement in low Reynolds and low Mach number slip flow through a tube. Experimental Thermal and Fluid Science, 2015, 60, 284-289.	2.7	5
36	Performance Evaluation of a Tandem Rotor Under Design and Off-Design Operation. , 2018, , .		5

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37	Tip injection as a means for rotating stall control in an axial flow fan. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2009, 223, 55-70.	1.4	4
38	Theoretical Analysis of Rotating Stall Under Static Inflow Distortion Including Effect of Tip Injection. International Journal of Turbo and Jet Engines, 2010, 27, .	0.7	4
39	Design methodology of a highly loaded tandem rotor and its performance analysis under clean and distorted inflows. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110160.	2.1	4
40	Numerical Investigation of the Effect of Moving Endwall and Tip Clearance on the Losses in a Low Speed Axial Flow Compressor Cascade. , 2013, , .		4
41	Study of temperature drop in microchannel using direct simulation Monte Carlo method. , 2014, , .		3
42	On Understanding the Effect of Plenum Chamber of a Bend Skewed Casing Treatment on the Performance of a Transonic Axial Flow Compressor. , 2014, , .		3
43	The effect of inlet distortion on low bypass ratio turbofan engines. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 1395-1413.	1.3	3
44	Effect of Speed Ratio and Axial Spacing Variations on the Performance of a High Aspect Ratio, Low Speed Contra-Rotating Fan. , 2012, , .		2
45	Study of the Velocity Flow Field Under Distorted Inflow Conditions for a High Aspect Ratio Low Speed Contra Rotating Fan. , 2013, , .		2
46	Experimental Investigation on the Effect of Porosity of Bend Skewed Casing Treatment on a Single Stage Transonic Axial Flow Compressor. , 2014, , .		2
47	Performance deterioration of axial compressor rotor due to uniform and non-uniform surface roughness. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 2687-2707.	1.3	2
48	Study of Gas Turbine Exhaust Diffuser Performance and Its Enhancement by Shape Modifications. , 2010, , .		1
49	Thermal Stress Induced by Inclined Impinging Heating Jet on a Flat Plate. Journal of Thermophysics and Heat Transfer, 2010, 24, 218-222.	1.6	1
50	Theoretical analysis of the effect of water and ethanol injection on axial compressor instabilities. Applied Thermal Engineering, 2011, 31, 1703-1711.	6.0	1
51	Effect of Rotor Tip Gap Variation at the Rear Stages of an Axial Flow Compressor. Applied Mechanics and Materials, 0, 225, 233-238.	0.2	1
52	Investigation of the Shear Flow Effect and Tip Clearance on a Low Speed Axial Flow Compressor Cascade. International Journal of Rotating Machinery, 2013, 2013, 1-22.	0.8	1
53	Study of Effects of Rotor Tip Tailoring in Axial Flow Compressors. , 2015, , .		1
54	Influence of Tip Jet Mass Flow and Blowing Rate on the Performance of an Axial Diffuser at Different Inlet Total Pressure Profiles. , 2015, , .		1

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55	Experimental Investigation of Stall Inception and its Propagation in a Contra Rotating Axial Fan Under Radial Inflow Distortion. , 2017, , .		1
56	Windmilling Characteristics of a Contra-Rotating Fan. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	1
57	Effect of radial inflow distortion on the performance of a highly loaded tandem stage. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 0, , 095765092110316.	1.4	1
58	Flow Interactions in Low Bypass Ratio Multi-Spool Turbofan Engines. , 2019, , .		1
59	Performance Evaluation of Contra-Rotating Fans Operating Under Different Speed Combinations. , 2019, , .		1
60	Pre-Stall Waves: Precursors to Stall Inception in a Contra-Rotating Axial Fan. , 2020, , .		1
61	Boundary Layer Control in a Compressor Cascade Using Distributed Suction. , 2008, , .		0
62	Boundary Layer Control in Turbine Exhaust Diffusers Using Casing Injection and Design Modifications. , 2012, , .		0
63	Understanding the Flow Behavior in a Low Hub-Tip Ratio, High Aspect Ratio Contra-Rotating Axial Fan Stage. , 2012, , .		0
64	Effect of Geometry Changes in an Aggressive Turbine Exhaust Delivery System. , 2013, , .		0
65	Understanding the Steady and Transient Behavior of the Moderately Loaded High Speed Axial Flow Compressor Stage at Off-Design Conditions. , 2014, , .		0
66	Non-Axisymmetric Endwall Contouring in a Compressor Cascade With Tip Gap. , 2014, , .		0
67	Propagation of Different Types of Inflow Distortions through a Contra Rotating Fan Stage. International Journal of Turbo and Jet Engines, 2015, 32, .	0.7	0
68	Effect of Spanwise Variation of Chord on the Performance of a Turbine Cascade. , 2017, , .		0
69	Effect of Tandem Blading in Contra-Rotating Axial Flow Fans. , 2018, , .		0
70	Influence of distorted inflows on the performance of a contra-rotating fan. Aeronautical Journal, 2021, 125, 702-719.	1.6	0
71	Active Separation Control in Circular and Transitioning S-Duct Diffusers Using Vortex Generator Jets. , 2006, , .		0
72	Study of Tip Flows in High Hub-to-Tip Ratio Axial Compressors at Low Speed With Varying Tip Gaps, Inflow Conditions and Tip Shapes. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
73	Experimental Studies on Stall Behavior in a Single Stage Transonic Axial Flow Compressor. , 2013, , .		0
74	Investigation of the Shear Flow Effect on Secondary Flow and Losses in a Low Speed Axial Flow Compressor Cascade. International Journal of Gas Turbine, Propulsion and Power Systems, 2014, 6, 17-26.	0.4	0
75	Flow Characteristics in an Inter-Turbine Duct Under Off Design Conditions. , 0, , .		0
76	Understanding Unsteady Flow Behaviour in a Low Aspect Ratio Contra-Rotating Axial Fan Under Radially Distorted Inflow. , 2019, , .		0
77	Windmilling Characteristics of a Contra-Rotating Fan. , 2020, , .		0
78	Response of a Tandem-Staged Compressor to Circumferential Inflow Distortion. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, .	1.5	0
79	Spike type of stall inception in the tandem rotor. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622211046.	2.1	0